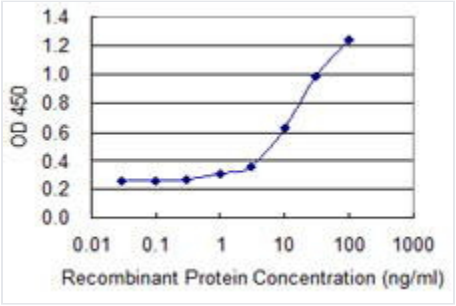
DUSP3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	DUSP3, Monoclonal Antibody
Full Product Name	DUSP3 (Dual Specificity Phosphatase 3, VHR) (AP)
Product Gene Name	anti-DUSP3 antibody
Product Synonym Names	Dual Specificity Phosphatase 3; VHR
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2C4
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes DUSP3.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	16,163 Da
OMIM	600183
3D Structure	ModBase 3D Structure for P51452
Immunogen	DUSP3 (NP_004081, 76aa-185aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	NFYKDSGITYLGIKANDTQEFNLSAYFERAADFIDQALAQKNGRVLVHCREGYSRSPTLVIAYLMMRQKMDVKSALSIVRQNREIGPNDGFLAQLCQLNDR
Conjugate	AP
Product Categories/Family for anti-DUSP3 antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-DUSP3 antibody	ELISA (EIA)
Application Notes for anti-DUSP3 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-DUSP3 antibody	The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinase dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protei kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and differ inducibility of their expression by extracellular stimuli. This gene maps in a region that contains the BRCA1 locus which confers susceptibility to breast a cancer. Although DUSP3 is expressed in both breast and ovarian tissues, mutation screening in breast cancer pedigrees and in sporadic tumors was n leading to the conclusion that this gene is not BRCA1. [provided by RefSeq]
Other Notes	Small volumes of anti-DUSP3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional may apply.
Searchable Terms for DUSP3 purchase	MBS6164830 is an antibody targeting DUSP3. Also known as DUSP3 (Dual Specificity Phosphatase 3, VHR) (AP). Host: Mouse.



Testing Data of anti-DUSP3 antibody
Detection limit for recombinant GST tagged DUSP3 is 0.3 ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUSP3. It may not necessarily be applicable to this product.

NCBI GI #	4758208
NCBI GeneID	1845
NCBI Accession #	NP_004081
UniProt Primary Accession #	P51452
UniProt Secondary Accession #	Q5U0J1; Q8IYJ9; D3DX45
UniProt Related Accession #	P51452
GenBank Nucleotide #	NM_004090.3
NCBI Official Full Name	dual specificity protein phosphatase 3
NCBI Official Synonym Full Names	dual specificity phosphatase 3
NCBI Official Symbol	DUSP3
NCBI Official Synonym Symbols	VHR
UniProt Protein Name	Dual specificity protein phosphatase 3
UniProt Synonym Protein Names	Dual specificity protein phosphatase VHR; Vaccinia H1-related phosphatase; VHR
Protein Family	Dual specificity protein phosphatase
UniProt Gene Name	DUSP3
UniProt Synonym Gene Names	VHR; VHR
UniProt Entry Name	DUS3_HUMAN

NCBI Protein Information	dual specificity protein phosphatase 3
UniProt Comments for DUSP3	DUSP3: a non-receptor, dual-specificity phosphoprotein phosphatase (DUSP). Different members of the DUSP family show distinct substrate specificities for MAPKs, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. DUSP3 inactivates the mitogen-activated kinases Erk2 and Jnk and is phosphorylated by ZAP-70. Phosphorylation by ZAP-70 is required for DUSP3 to inhibit the Erk2-Elk-1 pathway. Protein type: EC 3.1.3.48; Motility/polarity/chemotaxis; Protein phosphatase, dual-specificity; EC 3.1.3.16 Chromosomal Location of Human Ortholog: 17q21 Cellular Component: nucleoplasm; cytoplasm; immunological synapse; cytosol; nucleus Molecular Function: MAP kinase phosphatase activity; protein tyrosine/serine/threonine phosphatase activity; protein tyrosine phosphatase activity Biological Process: negative regulation of JNK cascade; nerve growth factor receptor signaling pathway; in utero embryonic development; negative regulation of MAPKKK cascade; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; negative regulation of T cell receptor signaling pathway; toll-like receptor 3 signaling pathway; positive regulation of mitotic cell cycle; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway; negative regulation of T cell activation; inactivation of MAPK activity
Research Articles on DUSP3	**1.** Data indicated that regulating non-receptor tyrosine kinase FAK and cell migration is a newly revealed function of VHR/DUSP3.
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